Item No. (9)
238 Sq mt

BOOK

ns		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8

M. A. R. 57 (Rule 116)
Measurement Book

No. B

499123

Serial No. ..first / final Pre-measurements

Name of Work ..Improvements to drains from q Valmiki beedhi in byatarayanapura in ward no. 07, byatarayanapura

Name of Contractor of nature of Agency ..by A. Puttaraju

Date of commencement of work ..

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Est cost:-	20.00 lakhs					
	P-code:-	P1771					
	A.S.No:-	AS/CE(YNK)/26/19-20, dt: 09.05.19					
	T.S.No:-	TS/EE(BTP)/19/19-20, dt: 09.05.19					
	Agr no:-	No. EE/BTP/Agr/66/19-20, dt: 19.07.19					
	work order no:-	No. EE/BBMP/BTP/66/19-20, dt: 19.07.19					
	Approved tender price:-	1876423.00 (excluding GST)					

MEASUREMENT BOOK

MAIN- BILL:-

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No.01:- Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 1.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete.,						
	Qty vide page no 499124 →					195.20 cum	
	At the rate of Rs. 180.00 →						35136.00
	Item No.12:- loading and unloading charges;,						
	Qty vide Item No.01 →					195.20 cum	
	At the rate of Rs. 120.0 →						23424.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	Item No.07:- Providing TMT straightening cutting and welding wherever anchoring to the adjoin design, cost of material	
	Qty vide page no	
	At the rate of Rs. 8	

Item No (9)
238 Sq mt

BOOK

dth	Depth 6	Contents 7	Reference to last Measurement 8
			val means- in ordinary soil o upto 2m and an average evelled and sides neatly levelled neatly after
			20 cum
			35136.00
			ges ; cum
			23424.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 499128

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No.07:- Providing TMT steel reinforcement for RCC works including straightening cutting, bending, hooking, placing in position, lapping and or welding wherever required, dowing with binding wire and anchoring to the adjoining members wherever necessary complete as per design, cost of materials, labour, HOM of machinery complete, Qty vide page no. 499126 → 2.540 tonne At the rate of Rs. 80000.00 →						203200.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No.02:- Providing and laying in position plain cement concrete of nominal mix 1:4:8 with OPC @180 kgs, with 40mm and downsize graded granite metal machine mixed concrete laid in layers not exceeding 15cms, thick well completed in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete,						
	Qty vide page no 49/25 →			55.20 cum			
	At the rate of Rs. 5800.00 →						320160.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No.08:- Providing and etc., for columns, pillars, - ular slabs/ side walls HOM of machinery comple
	Qty vide page no
	At the rate of Rs.
	Item No.06:- Providing a
	of design mix M20 wi

Item No. 1
238 Sqm

Contents	Reference to last Measurement
7	8
ement concrete mm and down size sete laid in in foundation our, HOM of	
320160.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 499129

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No. 05:- Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square/rectangular slabs/ side walls polygon in plan including cost of materials, labor HOM of machinery complete as per specifications., Qty vide page no 499127. → 264.0 Sqm At the rate of Rs. 500.0 →						132000.00
	Item No. 06:- Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @320 kgs with 20mm and down size						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.46 cum with superplastizers @ 3 lts confirming, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls, return walls, including attached plasters column piers abutments pillars pork, fillets etc, including cost of all materials labour, curing complete;						
	REC-DRAIN- BOTTOM:-						
	LHS:- 0-30	01	30.0	0.80	0.15	= 3.60	
	30-60	01	30.0	0.80	0.15	= 3.60	
						7.20	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ..
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	60-90
	90-130
	RHS:- 0-30
	30-60
	60-90
	REC-DRAIN- SIDE WALL
	LHS:- 0-30
	30-60
	60-90

Item No. (9)
238 Sqmt

OK

Depth 6	Contents 7	Reference to last Measurement 8
es @ 0.69 cum and		
plastizers @ 3 lts		
in layers not exceeding		
undation plinth and		
ase lintels, retaining		
plasters column piers		
ding cost of all		
0·15 = 3·60		
0·15 = 3·60		
	7.20	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 499130

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2		Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		60-90	01	30·0	0·80	0·15	= 3·60	
		90-130	01	40·0	0·80	0·15	= 4·80	
	R+HS:-	0-30	01	30·0	0·80	0·15	= 3·60	
		30-60	01	30·0	0·80	0·15	= 3·60	
		60-90	01	30·0	0·80	0·15	= 3·60	
	REC-DRAIN-SIDE WALL:-							
	L+HS:-	0-30	1×2=2	30·0	0·15	0·30	= 2·70	
		30-60	1×2=2	30·0	0·15	0·30	= 2·70	
		60-90	1×2=2	30·0	0·15	0·30	= 2·70	
							34.50	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	Or 34.50	
1	2	3	4	5	6	7	8
	90-130	1x2=2	40.0	0.15	0.30	= 3.60	
	R+LS:- 0-30	1x2=2	30.0	0.15	0.30	= 2.70	
	30-60	1x2=2	30.0	0.15	0.30	= 2.70	
	60-90	1x2=2	30.0	0.15	0.30	= 2.70	
						46.20 cum	
							304920.0

Assistant Executive Engineer,
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P..
Bangalore.

Item No.09:- Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centering shuttering reinforcement and bar bending machine mixed concrete

of Rs. 6600-00 →

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	laid in layers not e
	L+LS:- 0-30
	30-60
	60-90
	90-130
	R+LS:- 0-30
	30-60
	60-90

Item No. (9)
238 Sqm

BOOK

ns		Contents	Reference to last Measurement
eadth 5	Depth 6	34.50 7	8
·15	0·30	= 3·60	
15	0·30	= 2·70	
15	0·30	= 2·70	
15	0·30	= 2·70	
		46·20 cum	
		304920·0	
thick pre cast RC covering			
crete M30 mix with stone			
cluding centering shuttering			
machine mixed concrete			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

31

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	laid in layers not exceeding 15 cm th.)						
	LHS:- 0-30	50	0·60	0·75	-	= 22·50	
	30-60	50	0·60	0·75	-	= 22·50	
	60-90	50	0·60	0·75	-	= 22·50	
	90-130	67	0·60	0·75	-	= 30·15	
	RHS:- 0-30	50	0·60	0·75	-	= 22·50	
	30-60	50	0·60	0·75	-	= 22·50	
	60-90	50	0·60	0·75	-	= 22·50	
						165·15 Sqm	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Gangamma temple road - Amruthahalli	268	0.60	0.90	-	= 144.72	
		C&FR. 2.25/10			Total =	309.87 Sqm	
	At the rate of Rs 2100.00 →						650727.00
	Item No. 10:- Providing and fixing MS grating.,						
	Valmiki bheedhi	10	-	-	-	= 10	
	Gangamma temple rd	25	-	-	-	= 25	
						35 nos	
	At the rate of Rs.	84.00 →					2940.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No. 03:- Providing an 1:2:4 with Cement C24 metal coarse aggregate machine mixed concre compacted, in founda labours, curing com
	Culvert - bottom

K

epth 6	Contents 7	Reference to last Measurement 8
	= 144.72	
=	309.87 Sqm	
		650727.00
g.,		
	= 10	
	= 25	
	35 nos	
		2940.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 499132

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No.03:- Providing and laying in position plain cement concrete of mix 1:2:4 with cement @240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878 cum and fine aggregates @0.53cum, machine mixed concrete laid in layers not exceeding 15cms, th well compacted, in foundation, plinth and cills including cost of all materials, labours, curing complete.,						
	Culvert-bottom	01	6.0	0.60	0.15	= 0.54	
		01	6.0	0.60	0.15	= 0.54	
						1.08	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	culvert coping:	1X2	6.0	0.45	0.10	= 0.54	
		1X2	6.0	0.45	0.10	= 0.54	
	culvert ramp:	1X2	6.0	0.20	0.10	= 0.24	
		1X2	6.0	0.20	0.10	= 0.24	
						2.64 cum	
	Qty Itd to 2.52 cum						
	At the rate of Rs. 6000.00 →						15120.00
	Item No.04:- Providing and constructing granite/trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms high						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ..
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	bond stones at 2m labour, curing etc., culvert - sidewall:
	At the rate of
	Item No.05:- Providing cement mortar 1:4 high, bond ston

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
0·45	0·10 =	0·54	
0·45	0·10 =	0·54	
0·20	0·10 =	0·24	
0·20	0·10 =	0·24	
		2·64 cum	
→			15120·00
ng granite/trap/basalt			
with cement mortar 1:6,			
erses not less than 20cms high			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

499133

Serial No. ..... From..... To.....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	bond stones at 2m apart in each course including cost of materials Labour, curing etc., complete.						
	Culvert-sidewall:	1×2 = 2	6·0	0·60	0·90 =	6·48	
		1×2 = 2	6·0	0·60	0·90 =	6·48	
						12·96 cum	
	At the rate of Rs 5000·00 →						64800·00
	Item No 05:- Providing cement mortar 1:4, 20mm deep, aflessraking joints to depth of 20mm ruled pointing to coursed stone masonry with high, bond stones at 2m apart in each course including cost of						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	materials, labours, curing etc., complete as per specifications						
	culvert side-wall:-						
		1×2=2	6.0	-	0.90	= 10.80	
		1×2=2	6.0	-	0.90	= 10.80	
						21.60 Sqm	
							4320.00
	At the rate of Rs. 200.00 →						
	Item No.10:- Providing and fixing 20cm th pre-cast RCC covering slab using reinforced cement concrete M20 mix.,						
	culverts:						
		10	0.60	1.80	-	= 10.80	
		10	0.60	1.80	-	= 10.80	
						21.60 Sqm	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Serial No. .....
Name of Work .....
Name of Contractor of nature of Age
Date of commencement of work .....

Date	Full description, etc, of wo
1	2
	At the rate

NT BOOK

nensions			Contents	Reference to last Measurement
	Breadth 5	Depth 6	7	8
	complete as per specifications			
-		0.90 =	10.80	
-		0.90 =	10.80	
			21.60 sqm	
				4320.00
20cm th			pre-cast RCC covering	
concrete			M20 mix.,	
0	1.80	- =	10.80	
0	1.80	- =	10.80	
			21.60 sqm	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

499134

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

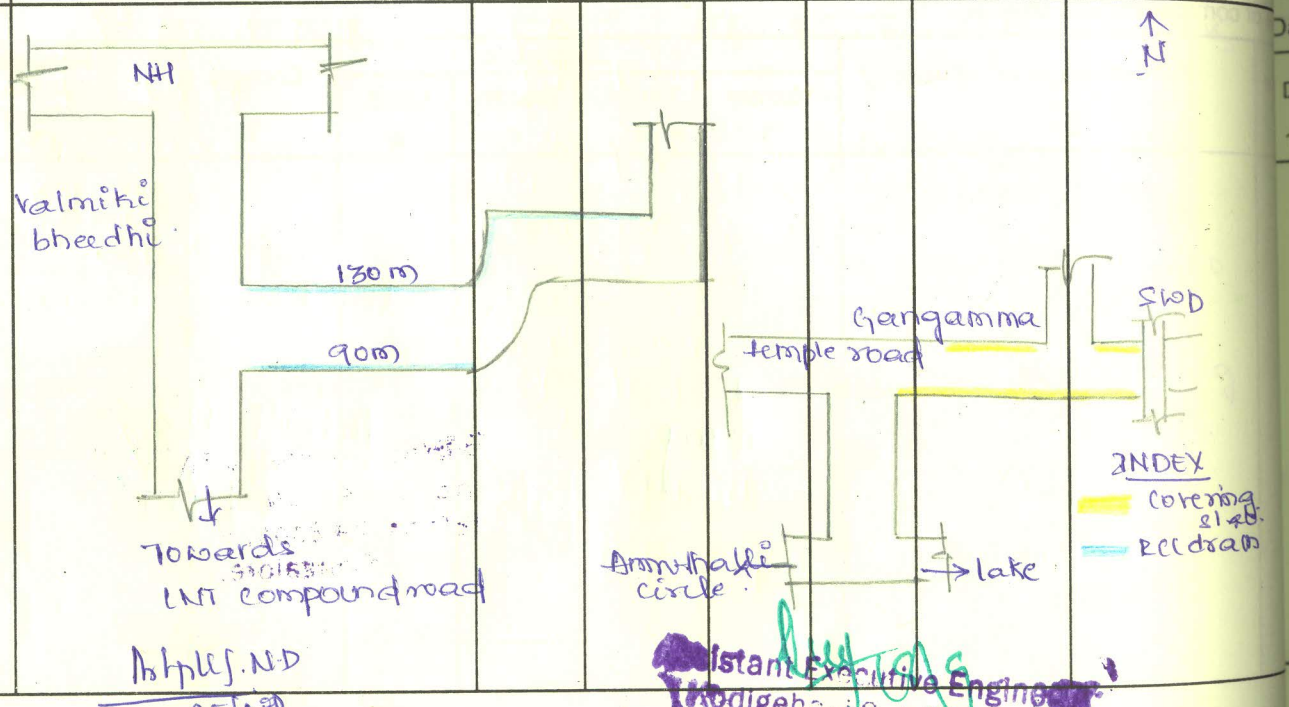
Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	At the rate of Rs. 5380.00 →						116208.00
						Grand total =	1872955.00

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

Asstt. N.D.
AE(W)
18/9/19

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



AE(NP)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2

Certificate:-

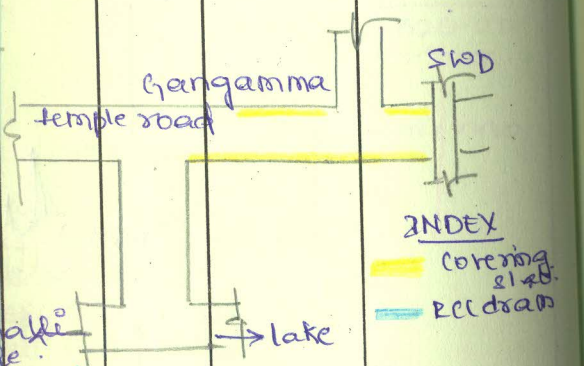
1) certified that cont

2) certified that debr

AE(NP)

T BOOK

sions		Contents	Reference to last Measurement
Breadth 5	Depth 6	7	8
			N



Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

M. A. R. 57 (Rule 116)
Measurement Book

No. B

499135

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Certificate:- 1) certified that contractor has done the work satisfactorily. 2) certified that debris has been removed from work spot. AE(Civil)						

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
1st	and Final Bill						
	P. 1771 ರಡಿ	BA	200560-00				
	ಪೈಕಶೀರ್ಷಿಕೆ	FD	100280-00				
	ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 200560 ಗಳನ್ನು ಪಾವತಿ ಮಾಡಿದೆ.	ಬ	20056-00				
	ಇದರಲ್ಲಿ ರೂ. 194911-00 ಗಳನ್ನು ಕರಾರುಚಾಚೆಕೆ	ಆ.ಗ	17907-00				
	ಮಾಡಿಕೊಂಡು ರೂ. 1810689-00 ಗಳನ್ನು	ಆ.ಗ	17907-00				
	FT/NEFT/RTGS ಮುಖಾಂತರ ಜಮೆಮಾಡಲಾಗಿದೆ	ಆ	2005-00				
	ಸಹಾಯಕ 25/10 ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು	ಆ.ಗ	200560-00				
	ಬ್ಯಾಂಗಳೂರು ಬ್ಯಾಂಗಳೂರು ವಿಭಾಗ ಬೃಬೆಮಪಾ, ಬೆಂಗಳೂರು ಬೃಬೆಮಪಾ, ಬೆಂಗಳೂರು	ಬ	16700-00				
			194911-00				
			1810689-00				

Serial No. first - final bill
Name of Work Improvements to dr
Name of Contractor of nature of Agency
Date of commencement of work Jana

Date	Full description, etc, of work
1	tst cost: 2
	Job code:
	Head of account:
	A-S. NO:-
	T.S. NO:-
	Agr no:-
	workorder no:-
	Approved tender pri